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step. 5 Summary, Conclusions, and Unfinished **Business** Our experiments confirm the assessment implied better than that of **simulation** methods for simple **models** and contracts. However, the major drawback of American Options: A Comparison of Monte Carlo **Simulation** Approaches Michael C. Fu, Scott B. Laprise, mail1.rhsmith.umd.edu/Faculty/KM/papers.nsf/6de61a84f4107c9d852567f2006c7c0e/a18a6d58d8fb85c8852569ad005353c0//AM

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
University of Zurich Liuren Wu Graduate School of **Business**, Fordham University June 14, 2001 We thank Design and Estimation of Quadratic Term Structure **Models** Markus Leippold Swiss Banking Institute, econwpa.wustl.edu:80/eps/fin/papers/0207/0207014.pdf

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agent representing the behavior of a strategic **business** unit within a single firm. Conversely, one could
 1 Sim-I-Space: An Agent-Based **Modelling** Approach To Knowledge Management Processes
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for correspondence: John M. Olin School of **Business**, Washington University, One Brookings Drive,
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 1995 Abstract This paper provides a uni ed **simulation**-based Bayesian and non-Bayesian analysis
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scenarios are concentrated among the same **business** cycle frequencies that normally occupy the
 Robust Monetary Policy with Misspecified **Models**: Does **Model** Uncertainty Always Call for
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Board of Governors of the Federal Reserve System.. - Note International.. (1997) ( Update)

of interest to both theorists and forecasters of **business** cycles. Keywords: monetary policy transmission,
 Of Monetary Policy Transmission: Evidence From A **Model** Of Bank Behavior That Incorporates Long-Term
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of California -Berkeley Haas School of **Business** S545 Student Services Building, 1900 Berkeley,
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people, information technologies, functions and **business** processes, while serving many purposes and

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negatively impacts many aspects of life, **business**, and our economy. This has resulted, in part,

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learner over time. This incremental and continuous **model** of concept learning matches more closely the kind

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is just a convenient representation of the same **model**, and we do not advocate use of DAE methods as

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1Z4, Canada May 27, 1996 Abstract The numerical **simulation** problem of tree-structured multibody systems,

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number of initial conditions, it's difficult to **model** this interaction accurately with a library of

populating virtual environments-using dynamic **simulation** to generate the motion of characters. We

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quantity needed for Bayesian hypothesis testing and **model** selection is the marginal likelihood for a **model**,

Estimating Bayes Factors via Posterior **Simulation** with the Laplace-Metropolis Estimator Steven

In this paper we describe a way to use posterior **simulation** output to estimate marginal likelihoods. We

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Fort Collins, CO 80523 Abstract The reliability **models** often assume random testing and statistical

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1 [Reconstructing occlusal surfaces of teeth using a genetic algorithm with simulated annealing type selection](#)

Vladimir Savchenko, Lothar Schmitt

 May 2001 **Proceedings of the sixth ACM symposium on Solid modeling and applications**

 Full text available: [pdf\(708.02 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we present an application of numerical optimization for surface reconstruction (more precisely: reconstruction of missing parts of a real geometric object represented by volume data) by employing a specially designed genetic algorithm to solve a problem concerning computer-aided design in dentistry. Using a space mapping technique the surface of a given model tooth is fitted by a shape transformation to extrapolate (or reconstruct) the remaining surface of a patient's tooth with ...

Keywords: computer-aided restoration design, constructive solid geometry, genetic algorithm, simulated annealing, space mapping, surface reconstruction, volume modeling

2 [Using simulation and genetic algorithms to improve cluster tool performance](#)

Mathias A. Dümmler

 December 1999 **Proceedings of the 31st conference on Winter simulation: Simulation---a bridge to the future - Volume 1**

 Full text available: [pdf\(95.90 KB\)](#)

 Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

3 [A Genetic Algorithm Simulation of a Transition Economy: An Application to Insider-Privatization in Croatia](#)

Sonja Novkovic

 June 1998 **Computational Economics**, Volume 11 Issue 3

 Full text available: [Publisher Site](#)

 Additional Information: [full citation](#), [abstract](#), [index terms](#)

A genetic algorithm simulation is applied to a model of privatization in a transition economy. Bounded-rational agents, learning by doing in a changing economic environment, are presented as a population of artificial adaptive agents. The paper examines the comparative performances of three alternative forms of genetic algorithm – the simple GA, PGA with election and EGA with elite selection. The latter version proved to be more robust

than the alternatives.

Keywords: economic transistor, genetic algorithm, insider privatization

4 Genetic algorithms in optimizing simulated systems

George Tompkins, Farhad Azadivar

December 1995 **Proceedings of the 27th conference on Winter simulation**

Full text available:  [pdf\(508.14 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



5 Simulated Annealing and Genetic Algorithms for the Facility Layout Problem: A Survey

Thelma D. Mavridou, Panos M. Pardalos

January 1997 **Computational Optimization and Applications**, Volume 7 Issue 1

Full text available:  [Publisher Site](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The facility layout problem (FLP) has many practical applications and is known to be NP-hard. During recent decades exact and heuristic approaches have been proposed in the literature to solve FLPs. In this paper we review the most recent developments regarding simulated annealing and genetic algorithms for solving facility layout problems approximately.

Keywords: Combinatorial Optimization, Facility Layout Problem, Genetic Algorithms, Heuristics, Parallel Algorithms, Simulated Annealing



6 Analysis methodology: A genetic algorithm and an indifference-zone ranking and selection framework for simulation optimization

Henrik E. Hedlund, Mansoor Mollaghasemi

December 2001 **Proceedings of the 33rd conference on Winter simulation**

Full text available:  [pdf\(369.29 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A methodology for optimization of simulation models is presented. The methodology is based on a genetic algorithm in conjunction with an indifference-zone ranking and selection procedure under common random numbers. An application of this optimization algorithm to a stochastic mathematical model is provided in this paper.



7 Using Genetic Algorithms to Model the Evolution of Heterogeneous Beliefs

James Bullard, John Duffy

February 1999 **Computational Economics**, Volume 13 Issue 1

Full text available:  [Publisher Site](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

We study a general equilibrium system where agents have heterogeneous beliefs concerning realizations of possible outcomes. The actual outcomes feed back into beliefs thus creating a complicated nonlinear system. Beliefs are updated via a genetic algorithm learning process which we interpret as representing communication among agents in the economy. We are able to illustrate a simple principle: genetic algorithms can be implemented so that they represent pure learning effects (i.e., b ...


Keywords: equilibrium selection, genetic algorithms, heterogeneous beliefs, learning



8 Modeling methodology: A framework for distributed simulation optimization

Björn Gehlsen, Bernd Page

December 2001 **Proceedings of the 33nd conference on Winter simulation**

Full text available:  pdf(349.11 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The system presented bridges the gap between three different research areas: discrete event simulation, heuristic optimization methods and distributed systems technology. Its goal is to provide a framework which supports an efficient implementation of simulation optimization projects, including heuristic optimum seeking procedures and parallel execution of experiments. It is written completely in Java and only uses components that are publicly available, including software libraries from academi ...

9 Genetic Algorithm Optimisation of Mathematical Models Using Distributed Computing

S. Dunn, S. Peucker, J. Perry

July 2005 **Applied Intelligence**, Volume 23 Issue 1

Additional Information: [full citation](#), [abstract](#)

In this paper, a process by which experimental, or historical, data are used to create physically meaningful mathematical models is demonstrated. The procedure involves optimising the correlation between this 'real world' data and the mathematical models using a genetic algorithm which is constrained to operate within the physics of the system. This concept is demonstrated here by creating a structural dynamic finite element model for a complete F/A-18 aircraft based on experimental data coll ...

Keywords: aeroelastic instability, distributed computing, flutter, genetic algorithm

10 Genetic algorithms with cluster analysis for production simulation

Robert Entriken, Siegfried Vössner

December 1997 **Proceedings of the 29th conference on Winter simulation**

Full text available:  pdf(847.38 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

11 Analysis methodology II: Simulation optimization: multi-response simulation optimization using stochastic genetic search within a goal programming framework

Felipe F. Baesler, José A. Sepúlveda

December 2000 **Proceedings of the 32nd conference on Winter simulation**

Full text available:  pdf(255.04 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This study presents a new approach to solve multi-response simulation optimization problems. This approach integrates a simulation model with a genetic algorithm heuristic and a goal programming model. The genetic algorithm technique offers a very flexible and reliable tool able to search for a solution within a global context. This method was modified to perform the search considering the mean and the variance of the responses. In this way, the search is performed stochastically, and not determ ...

12 Biological applications: An efficient genetic algorithm for predicting protein tertiary structures in the 2D HP model

Thang N. Bui, Gnanasekaran Sundarraj

June 2005 **Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05**

Full text available:  [pdf\(153.17 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Given the amino acid sequence of a protein, predicting its tertiary structure is known as the protein folding problem. This problem has been widely studied under the HP model in which each amino acid is classified, based on its hydrophobicity, as an H (hydrophobic or non-polar) or a P (hydrophilic or polar). Conformation of a protein in the HP model is embedded as a self-avoiding walk in either a two-dimensional or a three-dimensional lattice. The protein folding problem in the HP model is to fi ...

Keywords: 2D HP model, genetic algorithm, protein folding problem

13 Theory of genetic algorithms II: models for genetic operators over the string-tensor representation of populations and convergence to global optima for arbitrary fitness function under scaling

Lothar M. Schmitt

January 2004 **Theoretical Computer Science**, Volume 310 Issue 1-3

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present a theoretical framework for an asymptotically converging, scaled genetic algorithm which uses an arbitrary-size alphabet and common scaled genetic operators. The alphabet can be interpreted as a set of equidistant real numbers and multiple-spot mutation performs a scalable compromise between pure random search and neighborhood-based change on the alphabet level. We discuss several versions of the crossover operator and their interplay with mutation. In particular, we consider uniform ...

Keywords: asymptotic convergence of genetic algorithms, coevolution, neighborhood-based search, non-commuting crossover and mutation operators, simulated annealing, unbounded power-law scaled proportional fitness selection

14 Introduction & overview of “artificial life”—evolving intelligent agents for modeling & simulation

A. Martin Wildberger

November 1996 **Proceedings of the 28th conference on Winter simulation**

Full text available:  [pdf\(987.66 KB\)](#) Additional Information: [full citation](#), [references](#)

15 Can Genetic Algorithms Explain Experimental Anomalies?

Marco Casari

October 2004 **Computational Economics**, Volume 24 Issue 3

Full text available:  [Publisher Site](#) Additional Information: [full citation](#), [abstract](#)

In experimental data, it is common to find persistent oscillations in the aggregate outcomes and high levels of heterogeneity in individual behavior. Furthermore, it is not unusual to find significant deviations from aggregate Nash equilibrium predictions. In this paper, we employ an evolutionary model with boundedly rational agents to explain these findings. We use data from common property resource experiments (Casari and Plott, 2003). Instead of positing individual-specific utility functio ...

Keywords: bounded rationality, common-pool resources, experiments, genetic algorithms

16 A Markov Model of Production, Trade, and Money: Theory and Artificial Life Simulation

Herbert Gintis

March 1997 **Computational & Mathematical Organization Theory**, Volume 3 Issue 1

Full text available:  [Publisher Site](#) Additional Information: [full citation](#), [abstract](#)

The paper generalizes the Kiyotaki-Wright trade model by treating the trading period as a finite game, so Nash's theorem can be used to prove the existence of equilibrium, and by treating the economy as a Markov process, so an ergodic theorem can be used to show the existence of equilibria with desirable properties (e.g., in which money exists). A Markov model of trade also allows us to add complexity to the economy without adding corresponding complexity to the analysis of the mo ...

Keywords: Markov models, artificial life, genetic algorithms, money

17 Genetic algorithm for fuzzy modeling of robotic manipulators

Trung T. Pham

February 1996 **Proceedings of the 1996 ACM symposium on Applied Computing**

Full text available:  [pdf\(440.80 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

18 Construction engineering and project management: CEPM 1: simulation modeling and optimization of stockyard layouts for precast concrete products

Ramesh Marasini, Nashwan Dawood

December 2002 **Proceedings of the 34th conference on Winter simulation: exploring new frontiers**

Full text available:  [pdf\(249.74 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Stockyard is a hub of information that reflects the production, stock and sales of precast concrete products. The stockyard layout plays an important role in storage and retrieval of the products. Stockyard layout planning offers a complex task as large number of products are involved with different handling and storage requirements, and large stock is inevitable due to seasonality of demand. The major issues in planning stockyard layout include the proper design of stockyard space with roads ...

19 A Framework for the Optimization of Discrete-Event Simulation Models

Joshi B. D., Unal R., White N. H., Morris W. D.

October 1996 Technical Report, NASA Langley Technical Report Server

Full text available:  [pdf\(97.10 KB\)](#) Additional Information: [full citation](#), [abstract](#)

With the growing use of computer modeling and simulation, in all aspects of engineering, the scope of traditional optimization has to be extended to include simulation models. Some unique aspects have to be addressed while optimizing via stochastic simulation models. The optimization procedure has to explicitly account for the randomness inherent in the stochastic measures predicted by the model. This paper outlines a general-purpose framework for optimization of terminating discrete-event simulation ...

20 Real world applications: Predicting mining activity with parallel genetic algorithms

Sam Talaie, Ryan Leigh, Sushil J. Louis, Gary L. Raines

June 2005 **Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05**

Full text available:  [pdf\(275.36 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We explore several different techniques in our quest to improve the overall model performance of a genetic algorithm calibrated probabilistic cellular automata. We use the Kappa statistic to measure correlation between ground truth data and data predicted by the model. Within the genetic algorithm, we introduce a new evaluation function sensitive to

spatial correctness and we explore the idea of evolving different rule parameters for different subregions of the land. We reduce the time required ...

Keywords: cellular automata, parallel genetic algorithms

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